



## PRODUCT HANDLING

Package hardware in individual containers on a set-by-set basis with set numbers that correspond to the approved hardware schedule. Each set shall contain each item of hardware required for that set including necessary screws, keys and installation instructions, and installation templates for spotting mortising tools. Two or more identical sets may be packaged in the same container. Mark each container clearly with hardware set numbers. All keys shall be tagged according to their corresponding locks and delivered to the Government Construction Representative as described hereinafter. All construction keys shall be delivered to the Contractor.

## B. PRODUCTS

### HARDWARE

Finish hardware shall be as hereinafter specified and scheduled. Provide additional items of hardware, which are necessary to make a complete workmanlike installation even though such items are not specified. Such miscellaneous items shall be equal in quality to items which are specified.

Brands and models designated in this Section are intended to define the exact standards of quality, function and design required. Substitution will not be permitted unless given written approval by the Government Construction Representative.

<u>ITEM</u>	<u>SPECIFIED</u>	<u>ACCEPTABLE</u>
Hinges	Stanley	Hager, McKinney
Locks	Corbin-Russwin	No Substitutions
Closers	Norton	LCN 4040 EDA, Stanley D-4550EDA
Overhead Stops	Rixson	ABH
Flat Goods & Stops	Rockwood	Trimco
	Push Plates #70A 3" x 16"	US32D
	Pull Plates #125 x 70A 3" x 16"	US32D
	Kick Plates 8" x 2" L.D.W. x .050	US32D
	Armor Plates 30" x 2" L.D.W. x .050	US32D
	Wall Stops #403	US26D
	Door Bolts	Rockwood Ives
Weatherproofing*	Pemko	Reese

\*Provide S88D perimeter gasket at fire-rated doors. Provide appropriate meeting stile strips at pairs.

### KEYING

All locks shall be keyed in the factory registered system previously established for this building; supply 4 keys for each master and sub-master division, and 2 passage keys per lock.

Cores and keys for all locks shall be furnished and installed under this Combined Contract.

Keying arrangements and requirements for all new locks shall be coordinated directly between the hardware supplier and the Government Construction Representative.

Hardware shall have the following U.S. Standard finishes:

1. US26D or US32D for all items unless otherwise specified.
2. AL finish for exposed surfaces of door closers unless otherwise noted.
3. Similar finishes for all other items unless otherwise noted.

Closers on all doors shall be mounted with sex bolts and finishing washers. Grommet nuts will not be acceptable. Provide mounting plates where required. Closers shall be of the parallel arm configuration where possible. Closer arms shall be heavy-duty type for all closers.

Fabricate door plates from 0.50-inch thick metal, drilled and countersunk for field mounting, furnished with matching finish oval head screws suitable for door material construction.

All metal frames shall receive Glynn Johnson GJ64 silencers as required. Provide three silencers on strike jambs

of frames of single swing doors and two silencers on heads of frames of double-swing doors.

Dead stop angles for closers and overhead stops shall be accurately determined to prevent doors from contacting adjoining walls or other doors while still affecting the hold-open point at the greatest possible angle.

Supply correct wall stop anchors to coordinate with the wall construction. Wall stops installed on stud walls must be screwed into wood blocking installed within the wall under Section 06100.

### C. EXECUTION

#### HARDWARE LOCATIONS

Hardware locations (height above finish floor) shall be as follows:

Exit Devices	40" to centerline of bar
Interior & Exterior Levers & Pulls	40" to centerline
Push/Pull Plates	32" to bottom of plates
Flush Cup Pulls	36" to centerline

#### INSTALLATION OF HARDWARE

##### GENERAL

Install each hardware item in compliance with the manufacturer's written instructions. Wherever cutting and fitting is required to install hardware onto or into surfaces, which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division 9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.

Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

Drill, tap and countersink units for surface-applied hardware and other items which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards and manufacturer's recommendations.

##### INSTALLATION OF WEATHERSTRIPPING AND SEALS

Provide metal fasteners of type which will not work loose as a result of normal door use, and which are compatible with metal of the stripping, the frame or the door. Provide only smooth exposed fastener heads, which do not constitute a snagging hazard to clothing of building occupants.

Set units plumb and level, accurately centered at optimum location for maintaining a permanent seal.

Adjust doors, frames and hardware, as necessary, to achieve proper operation of seals and stripping.

##### ADJUST AND CLEAN

Adjust and check each operating item of hardware and each door, to ensure proper operation or function of every unit. Replace any unit which cannot be adjusted to operate freely and smoothly as intended for the application made.

#### HARDWARE SCHEDULE

##### **HARDWARE SET NO. 1**

3	Pairs	Hinges	FBF179 4 1/2" x 4 1/2" NRP	US26D
1	Each	Storeroom Lockset	CL3357 NZD	626
1	Each	Overhead Stop	#10	US32D
2	Each	Flush Bolts	#555	AL